**Семинар будет проходить в ИВМ РАН (Москва, ул. Губкина 8), к. 727**

**UK MetOffice – Inst. of Numerical Mathematics RAS – Hydrometcentre of Russia**

**Seminar on atmospheric dynamical cores development**

**14-15 April 2016**

**Thursday 14 April 2016**

10:00-10:10 Welcome

10:10-10:20 Mikhail Tolstykh. Introduction

10:20-11:10 Mikhail Tolstykh. An overview of the global SL-AV model development (40 min presentation + 10 min discussion).

11:10-11:50 Vladimir Shashkin. Results of using finite-volume SL advection scheme in SL-AV model, total energy budget in the model (30 min presentation + 10 min discussion).

11:50-12:10 Tea/Coffee

12:10 – 12:40 Tom Melvin. Gung-Ho: Progress and Plans (20 min presentation +10 min discussion).

12:40 – 13:10 Tommaso Benacchio. Dynamo: Building a Gung-Ho dynamical core (20+10).

13:10 – 14:30 Lunch

14:30 - 15:10 Yuri Vassilevski. Ani2D/Ani3D: computational technologies on unstructured simplicial meshes (30+10).

15:10-15:50 Igor Konshin. INMOST as a toolkit for distributed mathematical modeling:

general meshes and linear solvers (30+10).

15:50-16:10 Tea/Coffee

16:10-16:50 Sergei Goreinov. Extensions of a fast direct method for discrete elliptic problems (30+10).

16:50-17:20 Pavel Perezhogin. Comparison of numerical advection schemes in two-dimensional turbulence simulation (20+10).

**Friday 15 April 2016**

10:00 – 10:30 Evgueni Volodin. INM CM climate model overview (20+10).

10:30-11:00 Rostislav Fadeev. Coupling SL-AV model with INM-IO ocean model: first results (20+10).

11:00-11:30 Ben Shipway. Excessive rain accumulations in UK MetOffice high resolution limited area models - and how this relates to issues of conservation in the SL transport scheme (20+10).

11:30-12:00 Tea/Coffee

12:00-12:40 Eugeni Mortikov. On implementation of the dynamical core of INM climate model on massively parallel systems (30+10).

12:40-13:20 Gordei Goiman. Development of the iterative Helmholtz problem solver for the SL-AV model (20+10).

13:20 – 14:30 Lunch